SemStats 2013

First international workshop on Semantic Statistics
Sydney – 22 Octobre 2013

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Workshop goals

- Bring together two communities
 - Semantic Web people
 - Statisticians (esp. from official statistics)
- Learn from each other
 - Statisticians can learn how to publish their data as linked data
 - Semantic web people can learn how to better publish (structure, document...)
 their data
 - Learn together how to apply statistical method to linked data
- Clarify or discuss specific topics
 - Raw data, quality, confidentiality, provenance...
 - Semantic inference and statistical reasoning
 - Concept drift
- All will not be done during this workshop



Agenda

- 9:00 AM 10:30 AM Morning Session 1
 - Keynote speech and 1 full paper
- 10:30 AM 12:00 noon Morning session 2
 - 3 full papers and 1 short paper
- 1:45 PM 3:30 PM Afternoon session 1
 - 3 full papers and 1 short paper
- 4:00 PM 5:30 PM Afternoon session 2
 - 1 full paper and 2 challenge papers
 - Awards, conclusions



Organization

- Time for each presentation
 - Full papers: 20 minutes talk, 5 minutes questions
 - Short papers: 10 minutes talk, 5 minutes questions
 - Challenge papers, 12 minutes
- Best paper presentation and best challenge presentation will receive a prize offered by the Datalift project
- Proceedings will be published on CEUR



- 9:00 AM 10:30 AM Morning Session 1
- Keynote address:
 - "Strategic opportunities through applying semantic technologies to modernising official statistics", by Dr. Siu-Ming Tam, Head of the Methodology and Data Management Division at the Australian Bureau of Statistics.
- Paper
 - "Australian Bureau of Statistics Implementation of Semantic Web Technology", by Michael Mecham, Arupa Sarkar and Peter Meadows (ABS)



- 10:30 AM 12:00 noon Morning session 2
- Four papers
 - "Towards the Discovery of Person-Level Data -Reuse of Vocabularies and Related Use Cases", by Thomas Bosch and Benjamin Zapilko, Joachim Wackerow (GESIS, Leibniz Institute for the Social Sciences), Arofan Gregory (Open Data Foundation)
 - "XKOS: Extending SKOS for Describing Statistical Classifications", by Dan Gillman (US-BLS), Franck Cotton (INSEE) and Yves Jaques (UN-FAO)



Session 2 (cont.)

- "Towards Easy Matching Between Statistical Linked Data: Dimension Patterns", by Hideto Sato and Wen Wen (Tokyo International University)
- "Design and generation of Linked Clinical Data Cubes", by Laurent Lefort and Hugo Leroux (CSIRO)



- 1:45 PM 3:30 PM Afternoon session 1
- Four papers
 - "Towards Linked Statistical Data Analysis", by Sarven Capadisli (University of Leipzig), Sören Auer (University of Bonn), Reinhard Riedl (Bern University of Applied Sciences)
 - "Discovering Related Data Sources in Data-Portals", by Andreas Wagner and Achim Rettinger (Karlsruhe Institute of Technology), Peter Haase and Holger Lamm (fluid Operations)



Session 3 (cont.)

- "OLAP Manipulations on RDF Data following a Constellation Model", by Rafik Saad, Olivier Teste, and Cássia Trojahn (IRIT & University of Toulouse)
- "Towards a Vocabulary for Incorporating Predictive Models into the Linked Data Web", by Evangelos Kalampokis, Areti Karamanou, Efthimios Tambouris and Konstantinos Tarabanis (University of Macedonia)



- 4:00 PM 5:30 PM Afternoon session 2
- Paper
 - "Detecting and Reporting Extensional Concept Drift in Statistical Linked Data", by Albert Meroño-Peñuela, Christophe Guéret, Rinke Hoekstra and Stefan Schlobach (Free University of Amsterdam, DANS and University of Amsterdam)



Session 4 (cont.)

- Two challenge papers
 - "Analyzing Statistics with Background Knowledge from Linked Open Data", by Petar Ristoski and Heiko Paulheim (University of Mannheim)
 - "Non-Temporal Orderings as Proxies for Extensional Concept Drift", by Albert Meroño-Peñuela and Stefan Schlobach (Free University of Amsterdam and DANS)
- Best paper and best challenge paper awards
- Conclusions

